

PHYSIOLOGICAL SUPPORT DEBRIEFING

25X1A

DATE 15 Dec 1967 ACFT 27 PILOT TIME IN FLIGHT 4+15 TIME IN SUIT 5+30 PREBREATHING TIME 1:00

SATISFACTORY

UNSATISFACTORY

1. PHYSICAL CONDITION (PILOT)

2. SURVIVAL KIT AND CUSHION

3. PARACHUTE 1064. HELMET - 266

A. REFLECTIONS

B. FACE HEAT

C. COMMUNICATIONS

5. SUIT PROPER - 3A. CABIN DECOMPRESSION: YES NO6. OUTER GARMENT - 37. BOOTS AND SPURS - 1 Q.D.8. GLOVES - 2

9. OXYGEN SYSTEM

DEPART		RETURN	
TIME	AMT	TIME	AMT
#1	<u>1045</u>	<u>9.5</u>	
#2	<u>"</u>	<u>9.5</u>	

10. MISCELLANEOUS

11. EVALUATION ITEMS

A.

B.

C.

D.

E.

12. REMARKS: (EXPLAIN UNSATISFACTORY REPORT)

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25X1A

Approved For Release 2002/06/10 : CIA-RDP69B00041R001300040006-5
FULL PRESSURE SUIT TEST LOG

SUBJECT # 1051
SUIT # -3
OUTER GARMENT W/FLOAT GEAR -3
HELMET # 266
GLOVES # -2
BOOTS -1

FLIGHT DATE 15 Dec 67

DON 1015

DOFF 1555

TIME IN SUIT 4+40

TECHNICIAN

5X1A

PRESS-TO-TEST

PRE-FLIGHT

SUBJECT TEST

POSTFLIGHT

SYSTEM #1

Max Pressure

108

120

118

Differential

1.2

1.2

1.0

Leak Rate

1100

900

600

SYSTEM #2

Max Pressure

110

120

114

Differential

1.2

1.2

1.2

Leak Rate

600

750

1100

Unpress Leak Rate

300

200

450

Face Heat

197

Commo and Cord

✓

Pencils

✓

Knife

✓

Controller Number

4671

Packet

✓

Grease Zippers

✓

Check Location of CO₂

✓

Pressure Tap Screws

PRESSURE SUIT HOOK-UP CHECKLIST

1. ✓ Packet in pocket.
2. ✓ Stirrups secured.
3. ✓ Foot rest guards over seat foot rests.
4. ✓ Communications secured and functioning.
5. ✓ Face heat ON (LOW).
6. ✓ Oxygen hoses secured in QD.
7. ✓ Three harness snaps secured - harness adjusted and surplus stowed.
8. ✓ Kit adjusted and surplus stowed.
9. ✓ Two (2) bailout hoses secured.
10. ✓ Lap belt, shoulder harness, key, secured and adjusted. (VELCRO TAPE SECURED)
11. ✓ Oxygen hoses under right leg strap, chest strap under helmet hold-down.
12. ✓ Emergency oxygen lanyard secured and pin removed.
13. ✓ Green apple secured.
14. ✓ Red knob secured, guard removed.
15. ✓ Manual over-ride handle secured.
16. ✓ Two (2) Rocket-Jet releases secured.
17. ✓ Press-to-test both O2 Systems, (LOW pressure-#1 Sys 75/70 #2 Sys 65/60).
18. ✓ Check face heat.
19. ✓ Re-adjust lap belt.
20. ✓ Kit lanyard secured to D-Ring, under Lap Belt.
21. ✓ Parachute beacon; AUTOMATIC (), UNSNAPPED (X), SNAPPED ().
22. ✓ Departing LOX quantity, #1 System 9.5 #2 System 9.5 TIME 1045.
23. ✓ Returning LOX quantity, #1 System 8.6 #2 System 9.0 TIME 1550.

25X1A SUBJECT 1051 AIRCRAFT NUMBER 127
TECHNICIAN DATE OF FLIGHT 15 ^{Dec} 67

EQUIPMENT PREFLIGHT FOR HIGH FLIGHT

PARACHUTE:

1. ✓ Ripcord pins seated (main and first stage).
2. ✓ Check power cable linkage.
3. ✓ Pack opening elastics secured.
4. ✓ First stage jettison mated and pins secured.
5. ✓ Two (2) rocket jet units secured.
6. ✓ Manual over ride handle secured.
7. ✓ Green apple secured.
8. ✓ Red knob secured, guard installed.
9. ✓ Bailout hoses adjusted for HIGH flight.
10. ✓ Bailout hose connectors operating.
11. ✓ Bailout hose safety clip lanyard checked.
12. ✓ Harness adjusted for HIGH flight.
13. ✓ Automatic openers - triggered and reset.
14. ✓ Aneroids (sea level to 7500').
15. ✓ Bailout cylinder pins secured.
16. ✓ Bailout cylinder pressure #1 1800 #2 1800.
17. ✓ Communication cord secured to chute.
18. ✓ Visual inspection completed.
19. ✓ Faceheat battery pack checked.

SURVIVAL KIT:

1. ✓ Yellow handle secured.
2. ✓ Trigger clearance.
3. ✓ Kit disconnects secured.
4. ✓ Lid secured.
5. ✓ Visual condition.

INSTALLATION:

1. ✓ Shoulder harness installed.
2. ✓ Vent hose secured at disconnect.
3. ✓ Kit secured to chute, loose.
4. ✓ Emergency oxygen lanyard secured to chute with pin installed.
5. ✓ Communication cord secured at disconnect.
6. ✓ Vent hose secured to chute.
7. ✓ Pin secured in QD and safetied.
8. ✓ Oxygen system low pressure #1 6570 #2 70/75.
9. ✓ Pip pin in "D" ring.
10. ✓ Stirrup cables extended and operating freely.
11. ✓ Foot rest guards over seat foot rest.

SUBJECT# 51 AIRCRAFT # 27 PARACHUTE # 106 SEAT KIT # 51 25X1A
TYPE CUSHION SBM DATE 15 Dec 67 VENT HOSE # 71 TECHNICIAN

FULL PRESSURE SUIT TEST LOG

SUBJECT # 1050
 SUIT # -4
 OUTER GARMENT W/FLOAT GEAR -4
 HELMET # -1
 GLOVES # -4
 BOOTS -2

FLIGHT DATE 15 Dec 67
 DON 1100
 DOFF 1400
 TIME IN SUIT 3+00
 TECHNICIAN 25X1A

<u>PRESS-TO-TEST</u>	<u>PRE-FLIGHT</u>	<u>SUBJECT TEST</u>	<u>POSTFLIGHT</u>
<u>SYSTEM #1</u>			
Max Pressure	<u>114</u>	<u>108</u>	<u>112</u>
Differential	<u>1.3</u>	<u>1.4</u>	<u>1.2</u>
Leak Rate	<u>1200</u>	<u>550</u>	<u>1050</u>
<u>SYSTEM #2</u>			
Max Pressure	<u>120</u>	<u>120</u>	<u>115</u>
Differential	<u>1.3</u>	<u>1.4</u>	<u>1.2</u>
Leak Rate	<u>800</u>	<u>450</u>	<u>1100</u>
Unpress Leak Rate	<u>600</u>	<u>400</u>	<u>600</u>
Face Heat	<u>181</u>	<u>✓</u>	
Commo and Cord	<u>OK</u>	<u>✓</u>	
Pencils	<u>✓</u>	<u>✓</u>	
Knife	<u>✓</u>	<u>✓</u>	
Controller Number	<u>76</u>	<u>71</u>	
Packet	<u>✓</u>	<u>✓</u>	
Grease Zippers	<u>✓</u>	<u>✓</u>	
Check Location of CO ₂	<u>✓</u>	<u>✓</u>	
Pressure Tap Screws		<u>✓</u>	

PRESSURE SUIT HOOK-UP CHECKLIST

1. ✓ Packet in pocket.
2. ✓ Stirrups secured.
3. ✓ Foot rest guards over seat foot rests.
4. ✓ Communications secured and functioning.
5. ✓ Face heat ON (LOW).
6. ✓ Oxygen hoses secured in QD.
7. ✓ Three harness snaps secured - harness adjusted and surplus stowed.
8. ✓ Kit adjusted and surplus stowed.
9. ✓ Two (2) bailout hoses secured.
10. ✓ Lap belt, shoulder harness, key, secured and adjusted. (VELCRO TAPE SECURED)
11. ✓ Oxygen hoses under right leg strap, chest strap under helmet hold-down.
12. ✓ Emergency oxygen lanyard secured and pin removed.
13. ✓ Green apple secured.
14. ✓ Red knob secured, guard removed.
15. ✓ Manual over-ride handle secured.
16. ✓ Two (2) Rocket-Jet releases secured.
17. ✓ Press-to-test both O2 Systems, (LOW pressure-#1 Sys 70/60 #2 Sys 80/70).
18. ✓ Check face heat.
19. ✓ Re-adjust lap belt.
20. ✓ Kit lanyard secured to D-Ring, under Lap Belt.
21. Parachute beacon; AUTOMATIC (), UNSNAPPED (X), SNAPPED ().
22. ✓ Departing LOX quantity, #1 System 9.5 #2 System 9.25 TIME 1115.
23. Returning LOX quantity, #1 System 8.5 #2 System 9.0 TIME 1355.

SUBJECT 50

AIRCRAFT NUMBER 31

TECHNICIAN

DATE OF FLIGHT 15 Dec 67

25X1A

EQUIPMENT PREFLIGHT FOR HIGH FLIGHT

PARACHUTE:

1. ✓ Ripcord pins seated (main and first stage).
2. ✓ Check power cable linkage.
3. ✓ Pack opening elastics secured.
4. ✓ First stage jettison mated and pins secured.
5. ✓ Two (2) rocket jet units secured.
6. ✓ Manual over ride handle secured.
7. ✓ Green apple secured.
8. ✓ Red knob secured, guard installed.
9. ✓ Bailout hoses adjusted for HIGH flight.
10. ✓ Bailout hose connectors operating.
11. ✓ Bailout hose safety clip lanyard checked.
12. ✓ Harness adjusted for HIGH flight.
13. ✓ Automatic openers - triggered and reset.
14. ✓ Aneroids (sea level to 7500').
15. ✓ Bailout cylinder pins secured.
16. ✓ Bailout cylinder pressure #1 1800 #2 1800.
17. ✓ Communication cord secured to chute.
18. ✓ Visual inspection completed.
19. ✓ Faceheat battery pack checked.

SURVIVAL KIT:

1. ✓ Yellow handle secured.
2. ✓ Trigger clearance.
3. ✓ Kit disconnects secured.
4. ✓ Lid secured.
5. ✓ Visual condition.

INSTALLATION:

1. ✓ Shoulder harness installed.
2. ✓ Vent hose secured at disconnect.
3. ✓ Kit secured to chute, loose.
4. ✓ Emergency oxygen lanyard secured to chute with pin installed.
5. ✓ Communication cord secured at disconnect.
6. ✓ Vent hose secured to chute.
7. ✓ Pin secured in QD and safetied.
8. ✓ Oxygen system low pressure #1 80/70 #2 80/70.
9. ✓ Pip pin in "D" ring.
10. ✓ Stirrup cables extended and operating freely.
11. ✓ Foot rest guards over seat foot rest.

SUBJECT# 50 AIRCRAFT # 31 PARACHUTE # 125 SEAT KIT # 50 25X1A
TYPE CUSHION 58M DATE 15 Dec 67 VENT HOSE # 76 TECHN

PHYSIOLOGICAL SUPPORT DEBRIEFING

25X1A

DATE 15 DEC 67 ACFT L31 PILOT TIME IN FLIGHT 145 TIME IN SUIT 3+00 PREBREATHING TIME 1400

SATISFACTORY

UNSATISFACTORY

1. PHYSICAL CONDITION (PILOT)

2. SURVIVAL KIT AND CUSHION 50 503. PARACHUTE 100 1254. HELMET - 1

A. REFLECTIONS

B. FACE HEAT

C. COMMUNICATIONS

5. SUIT PROPER - 4A. CABIN DECOMPRESSION: YES NO6. OUTER GARMENT - 47. BOOTS AND SPURS - 2 008. GLOVES - 4

9. OXYGEN SYSTEM

DEPART		RETURN	
TIME	AMT	TIME	AMT

#1 1115 9.5 1355 8.5#2 1115 9.25 1355 9.0

10. MISCELLANEOUS

11. EVALUATION ITEMS

A.

B.

C.

D. 25X1A

E.

12. REMARKS: (EXPLAIN UNSATISFACTORY REPORT)

PHYSIOLOGICAL SUPPORT DEBRIEFING

25X1A

DATE 15 DEC 67 ACFT 131 PILOT [REDACTED]
 TIME IN FLIGHT 1+45 TIME IN SUIT 3+00 PREBREATHING TIME 1+00

SATISFACTORY

UNSATISFACTORY

1. PHYSICAL CONDITION (PILOT)

2. SURVIVAL KIT AND CUSHION 50 503. PARACHUTE +06 1254. HELMET - 1

A. REFLECTIONS

B. FACE HEAT

C. COMMUNICATIONS

5. SUIT PROPER - 4A. CABIN DECOMPRESSION: YES NO6. OUTER GARMENT - 47. BOOTS AND SPURS - 2 008. GLOVES - 4

9. OXYGEN SYSTEM

DEPART		RETURN	
TIME	AMT	TIME	AMT

#1 1115 9.5 1355 8.5#2 1115 9.25 1355 9.0

10. MISCELLANEOUS

11. EVALUATION ITEMS

A.

B.

C.

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25X1A

12. REMARKS: (EXPLAIN UNSATISFACTORY REPORT)

*** TOP SECRET ***

BX-6739

DCOL CHECK LIST

* DENOTES MANDATORY CALL TO COMMAND POST UPON COMPLETION

H-24:00 TO H-23:30: SECURE SUITS, CHUTES, KITS AND VENT UNITS: ✓ 0825-0855

DESIGNATE LIFE SUPPORT TECHNICIANS: ✓

25X1A

A/C 27-51

Mc 31-50

H-23:30: ATTEND COMMANDERS BRIEFING: ✓

SUBMIT HANGAR ACCESS ROSTER, 5 CYS 1-MC 3-SECURITY 1-DCOL ✓ 0855

SUBMIT RECOVERY ROSTER, 3 CYS 1-MC 1-ADMIN 1-DCOL ✓

H-22:00 TO H-17:00: PREFLIGHT: ✓ 1025-1525

BOTH SUITS (EA PILOT) ✓

PARACHUTE AND EMERGENCY O2 SYSTEMS ✓

SEAT KIT COMPONENTS ✓

SUIT ROOM VENT ✓

LOX VENT UNIT ✓

OXYGEN CYLINDERS ✓

TEST EQUIPMENT ✓

TRANSPORT VANS ✓

H-21:00: NOTIFY SECURITY, SEAT KIT AVAILABLE FOR PACKING: ✓ 1125

H-3:00 TO H-1:40: PREPARE PREBREATHING ROOM FOR RECEIPT OF PILOT: ✓ 0525-0645

H-2:00 PERSONALLY CHECK WITH MISSION COORDINATOR AT C.P. TO VERIFY NAMES OF
PRIMARY AND SPARE PILOTS AND AIRCRAFT: ✓

P ✓

S ✓

INSTALL SEAT KIT AND PARACHUTE: ✓

H-2:00: RECEIVE PACKET FROM INTELLIGENCE: ✓ 0625

H-1:45 TO H-1:30: SECURITY INSPECTS SUITS: ✓ 0640-0655

H-1:20 TO H-1:10: FLIGHT SURGEONS MEDICAL IN DCOL: ✓ 0705-0715

H-1:10 TO H-1:00: DRESS PILOT, PRESSURE CHECK EQUIPMENT: ✓ 0725-0735

H-0:50 TO H-0:45: TRANSPORT TO AIRCRAFT: ✓ 0740-0750

*H-0:45 TO H-0:35: PILOT HOOKUP AND SUIT A/C CHECK: ✓ 0740-0750

H-0:35 TO TAKEOFF: STANDBY IN DCOL AND PACK LOW RECOVERY EQUIPMENT: ✓

LANDING: REMOVE PILOT, TRANSPORT PILOT BACK TO DCOL, DESUIT PILOT: ✓

DEBRIEF PILOT, EVALUATE AND CHECK RELIABILITY OF EQUIPMENT: ✓

POST-FLIGHT EQUIPMENT: ✓

*** TOP SECRET ***

0830 0850

0830

0945-1000

1010-1020

1020-1030

1040-1045

1045-1055

1055-1150

1020-1030

1040-1045

1045-1055

1055-1150

25X1A

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MISSION PILOTS ACTIVITY SCHEDULE FOR OPERATIONAL MISSION

DCOL

H-HOUR TIME PRIMARY	LOCAL TIME PRIMARY	H-HOUR TIME SPARE	LOCAL TIME SPARE	ITEM	LOCATION
H -22:30	<u>1300</u>			Pre-Mission Physical Exam	Flt Surg
H -21:30	<u>1400</u>			Eating	A/C Mess
H -20:30	<u>1500</u>			Recreation activities as scheduled	Selected Area
H ¹⁸⁰⁰ -17:30	<u>1730</u>			Intelligence Review	DCOMI
H -17:00	<u>1830</u>			Initial Brief & Recreation	DCO Brief Rm
H -14:00	<u>2130</u>			Eating	A/C Mess
H -13:00	<u>2230</u>			Crew Rest	Asgd House
H -4:00	<u>0730</u>			Wake/up Psychological Ck	Asgd House/ Crew Mess
H -3:30	<u>0800</u>			Final Briefing	DCO Brief Rm
H -2:30	<u>0900</u>			Breakfast	A/C Mess
H -1:20	<u>1010</u>	H 1:20	<u>1010</u>	Final Physical Evaluation	DCOL
H -1:10	<u>1020</u>	H -:10	<u>1020</u>	Suiting	DCOL
H -:50	<u>1040</u>	H +:10	<u>1040</u>	Leave Ops	Transport Van
H -:45	<u>1045</u>	H +:15	<u>1045</u>	Arrive Aircraft	Hangar
H -:30	<u>1100</u>	H +:30	<u>1120</u>	Start Engine	Hangar
H -:20	<u>1110</u>	H +:40	<u>1130</u>	Taxi	Aircraft
H -:05	<u>1125</u>	H +:55	<u>1145</u>	Trim Engine	Aircraft
H -:00	<u>1130</u>	H +1:00	<u>1150</u>	Take Off	Aircraft
L +:25	_____			Post Mission Physical	DCOL
L +:45	_____			Ops Debrief	DCO Brief Rm
L +1:00	_____			Mission Debrief	DCO Brief Rm
L +3:30	_____			Released	

Revised 20 Aug 67

BX 6739

25X1A



PAT 127

SA/R 131

T.O. 0825

20 Min 10 inches

Dress both pilots same time

Take pilots to hangar same time